

## **REMARKS**

Applicants have amended original claim 58 and added new claims 86-117.

New claims 86-89 are supported in the application at page 11, lines 10-17. The recitation of fragments is supported at page 11, lines 18-23, at page 22, lines 8-12, and again at page 23, lines 9-12. These proteins are differing transcripts identified at page 59, wherein the 426 amino acid sequence of SEQ ID NO: 12 is described in Figure 7a (where LOC148738 has the sequence shown in Fig. 5, which is identical to SEQ ID NO: 12). The various fragments are shown as cleavage sites in Figure 7a and Figure 8a shows cleavage sites for fragments at the arrows.

Claim 90 is supported at page 7, lines 26-31, as well as original claims 79 and 80 and claim 92 is supported at page 46, lines 23-25, as well as page 9, lines 20-26.

Claims drawn to isolated polynucleotides are supported at page 9, lines 15-19, where the fragment sizes of the polypeptide correspond to the molecular weights of the fragments identified from the cleavage sites of Figures 7a and 8a.

Claim 108 et seq., drawn to a method of diagnosis, are supported at page 26, lines 4-5, where the diseases of iron metabolism are identified, and at page 4, lines 17-22, at page 10, lines 10-20, and at page 53, lines 17-22.

Applicants have enclosed fees based on the claims of this amendment and not including the canceled claims. No additional fee is believed due in filing the this amendment. The Commissioner is requested to charge any additional fees, or credit any refunds, to Deposit Acc't No. 03-0678.